ORDER NO. SD7806-1380

Service Manual

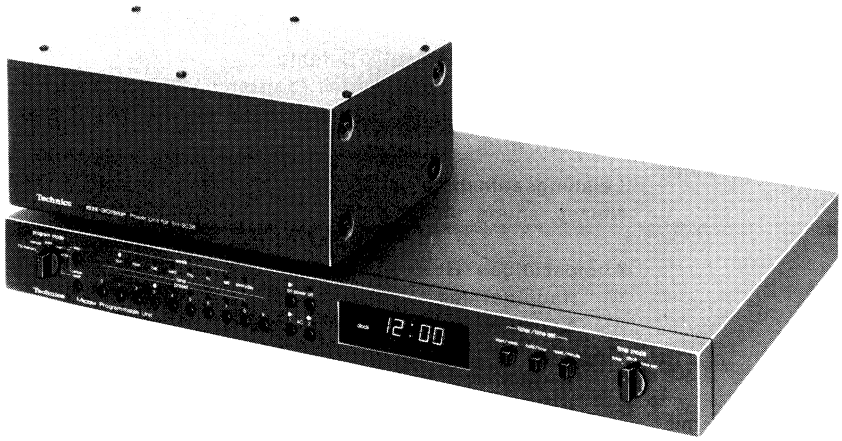
SH-9038

Tentative

MICOM Programmable Unit

SH-9038

(D), (DG), (XGH), (XGF), (XE), (XA), (X)



* The models SH-9038 (D) and SH-9038 (DG) are available in Scandinavia and European only.
* The model SH-9038 (XGH) is available in Holland only.
* The model SH-9038 (XGF) is available in France only.
* The model SH-9038 (XE) is available in United Kingdom only.
* The models SH-9038 (XA) and SH-9038 (X) are available in Asia, Latin America, Middle East and Africa only.

TECHNICAL SPECIFICATIONS (Specifications are subject to change without notice for further improvement.)

[DIN 45 500]

Function:
Weekly program unit (using 1-chip 4-bit microcomputer) (one entire week programmable by minute).

Program contents:
On/off selections of: day of week, time (hour and minute), FM channel, AC outlets (for tuner, for amplifier, AC1, AC2).

Program "write in," "recall" and reset:
All programs resettable.
Recall and confirmation of each program step.
Each step program can be rewritten; cancellation during programming possible.

Number of program steps
Time programming (in minutes) for 1 week, with maximum of 32 steps.

Controlled AC outlets (max. rating)

For tuner:	100W
For amplifier:	500W
AC1:	150W
AC2:	150W

Clock:
Synchronized with AC power source; (with 50 Hz/60 Hz selector) indicating day of week and time; with power-failure indication.

Timer:
Time counting possible to second; maximum indication of 59 min., 59 sec.; start, hold, reset possible.

Functions in combination with Technics ST-9038 tuner

FM presetting:
Preset of 8 FM stations possible; power-failure compensation

Other functions:
- Priority to automatic operation (at "auto" position of programming-mode selector).
- Recording of tuner broadcast while listening to another music source

Power consumption		15 W
Power supply		50 Hz/60 Hz, 110V/120V/220V/240V
Dimensions (W×H×D)		
main unit		450×53×285 mm ($17\frac{23}{32}$"×$2\frac{3}{32}$"×$11\frac{7}{32}$")
power unit		225×97×166 mm ($8\frac{27}{32}$"×$3\frac{13}{16}$"×$6\frac{17}{32}$")
		225×97×174 mm (FOR UNITED KINGDOM) ($8\frac{27}{32}$"×$3\frac{13}{16}$"×$6\frac{27}{32}$")
Weight	**main unit**	4.5 kg (9.9 lb.)
	power unit	3 kg (6.6 lb.)

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

TECHNISCHE DATEN (Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.) [DIN 45 500]

Funktion:
Wochenprogrammiereinheit (Verwendung eines 1-Chip/4-Bit-Mikrocomputers) (Eine ganze Woche minutengenau vorprogrammierbar.)
Programm:
Ein/Aus-Schaltzustände von: Wochentag, Zeit (Stunde und Minute), UKW-Kanal, Wechselstrom-Steckdosen (für Tuner, Verstärker, AC1, AC2)
Programme "write in", "recall" und "reset":
Alle Programme wiederholbar ("reset"). Aufrufen und Überprüfen ("recall") eines jeden Programmbefehls. Jeder Programmbefehl kann überschrieben werden; Löschen während des Programmierens ist möglich.
Anzahl der Programmbefehle:
Programmieren der Schaltzeiten (in Minuten) für eine Woche, mit maximal 32 Schaltbefehlen
Geschaltete Wechselstrom-Steckdosen (max. Nennleistung):

Für den Tuner:	100W
Für den Verstärker:	500W
AC1:	150W
AC2:	150W

Uhr:
Mit der Wechselstrom-Netzfrequenz synchronisiert; mit einem 50 Hz/60 Hz-Umschalter; Wochentag- und Tageszeitanzeige; mit Stromstörungsanzeige
Stoppuhr:
Sekundenzählung möglich; größter angezeigte Wert: 59 Minuten: 59 Sekunden; mögliche Funktionen: Start, Halt, Rücksetzen
〈**Funktionen in Verbindung mit dem Tuner ST-9038 von Technics**〉
UKW-Sendervoreinstellung:
Voreinstellung von 8 UKW-Sendern möglich; Stromstörungskompensation
Andere Funktionen:
- Priorität der Automatik-Befehle (in der "auto"-Stellung des Programmwahlschalters)
- Rundfunkaufnahme, während eine andere Musikquelle gehört wird.

Leistungsaufnahme	15W
Netzspannung, umschaltbar	50 Hz/60 Hz, 110V/120V/220V/240V
Abmessungen (B×H×T)	
Hauptgerätes	450×53×285 mm
Netzteil-Einheit	225×97×166 mm
Gewicht	
Hauptgerätes	4.5 kg
Netzteil-Einheit	3 kg

CARACTERISTIQUES TECHIQUES (Sujet á changement sans préaris) [DIN 45 500]

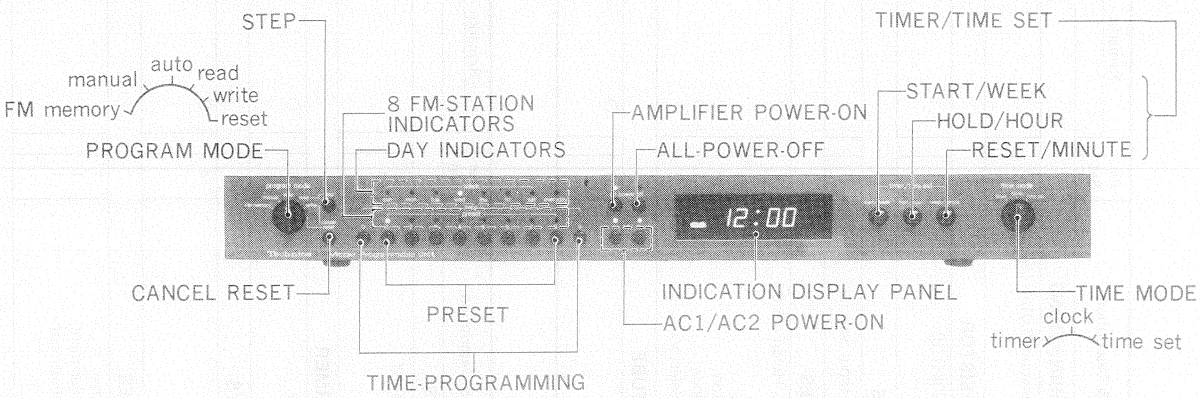
Fonction:
Appareil à programme hebdomadaire (utilisant un micro-ordinateur à 1 microplaquette 4 bits) (programmation d'une semaine entière par minute)
Contenu du programme:
Sélections marche/arrêt de: jour de la semaine, heure (heure et minute), canal FM, prises c.a. (pour syntonisateur, pour amplificateur, AC1, AC2)
"Ecrit", "rappel" et "remise à zéro" de programme:
Tous les programmes peuvent être remis à zéro. Rappel et confirmation de chaque étape de programme. Chaque programme peut être "réécrit"; annulation possible pendant la programmation.
Numéro des étapes de programme:
Programmation de l'heure (en minutes) pour une semaine, avec un maximum de 32 instructions.
Prises c.a. controlées (évaluation max.)

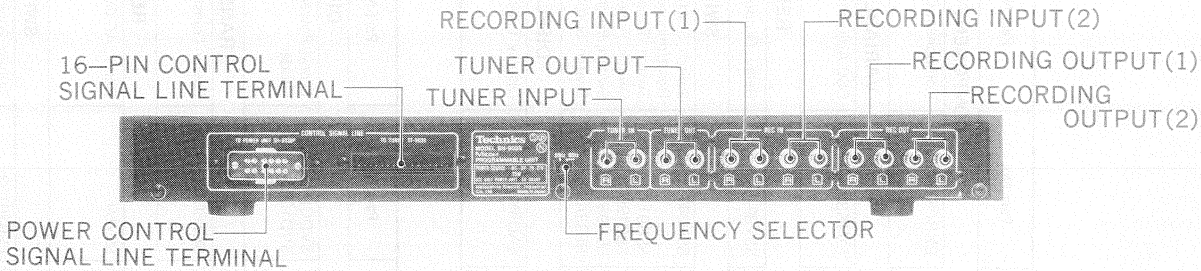
Pour le syntonisateur:	100W
Pour l'amplificateur:	500W
AC1:	150W
AC2:	150W

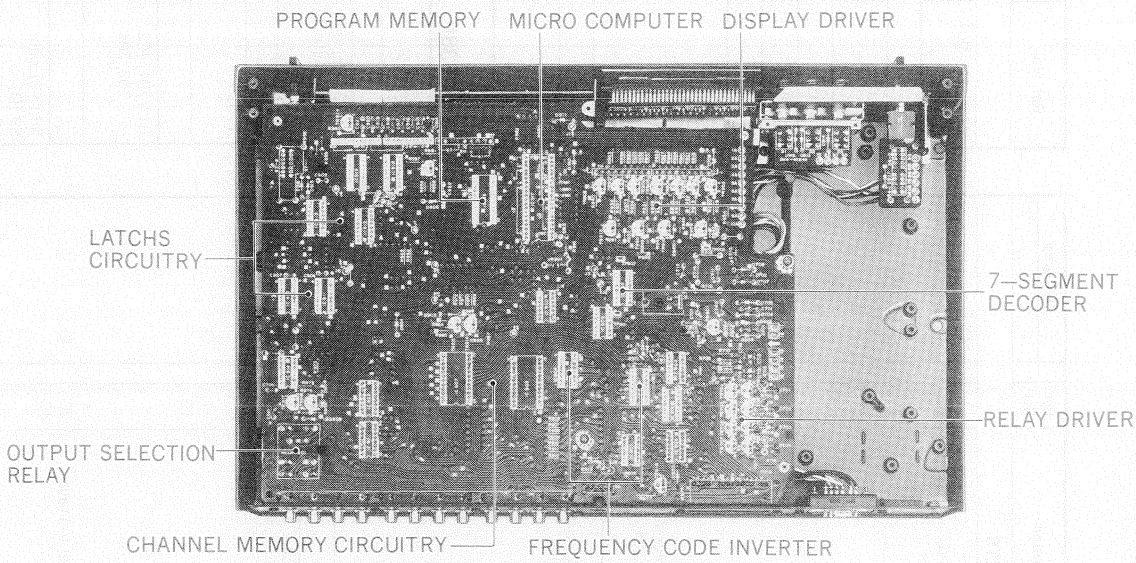
Montre:
Synchronisée avec l'alimentation c.a.; (avec sélecteur 50 Hz/60 Hz) indiquant le jour de la semaine et l'heure; avec indication en cas de coupure de courant.
Minuterie:
Compte de temps possible à la seconde près; indication maximum de 59 minutes, 59 secondes; départ, maintien, remise à zéro possibles.
〈**Fonctions en combinaison avec le syntonisateur ST-9038 Technics**〉
Présélection FM:
Possibilité de présélectionner 8 stations FM; compensation en cas de coupure de courant.
Autres fonctions:
- Priorité au fonctionnement automatique (sélecteur de mode de programmation sur "auto")
- Enregistrement d'une émission radio tout en écoutant une autre source musicale

Consommation	15W
Alimentation	50 Hz/60 Hz, 110V/120V/220V/240V
Dimensions (L×H×Pr)	
Appareil plincipal	450×53×285 mm
Appareil d'alimentation	225×97×166 mm
Poids	
Appareil plincipal	4.5 kg
Appareil d'alimentation	3 kg

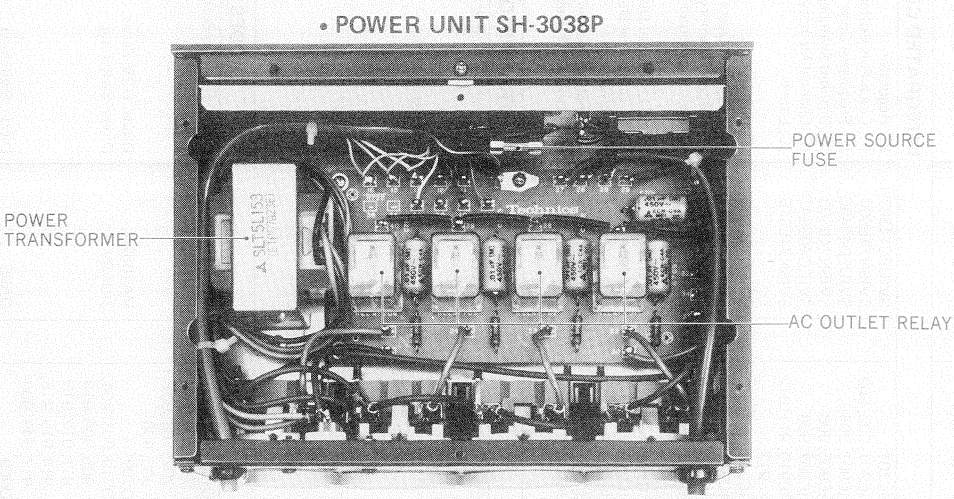
■ LOCATION OF CONTROLS







• POWER UNIT SH-3038P



■ REPLACEMENT PARTS LIST

NOTES 1: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. [S] indicates that only parts specified by the manufacturer be used for safety.

• SH-9038

Ref. No.		Part No.	Part Name & Description	Per Set		Remarks
INTEGRATED CIRCUITS						
IC701		SVIUPC14305H	IC, Regurator	1		O
IC901, 902, 909		SVISN74LS00	IC, Clock Puls Buffer & Nand	3		O
IC903, 904		SVIUPD4049C	IC, Frequency Code Inverter	2		O
IC905, 906		SVISN74LS03	IC, Buslines Switcher	2		O
IC907, 908		SVICD4036AD	IC, Channel Memory	2		O
IC910, 911, 912 913		SVISN74LS75	IC, Latchs	4		O
IC914		SVISN74LS08	IC, Buffer	1		O
IC915		SVISN74LS47	IC, 7 Segment Decoder	1		O
IC916		SVID2101AL-4	IC, Program Memory	1		O
IC917		MN1400ST	IC, Micro Computer	1		O
IC918		SVISN7442	IC, BCD Decimal Decoder	1		O
IC919		SVISN74LS42	IC, BCD Decimal Decoder	1		O
IC920		SVISN74LS09	IC, Buffer	1		O
IC921		SVITC4099P	IC, Single 8-Channel Multiplexer	1		O
IC922		SVITC4051P	IC, 8 Bit AD, D, Ressabla Latch	1		O
TRANSISTORS						
TR701, 703, 705, 707, 901, 916, 917, 919		**2SC945-R**	Transistor, Driver & Switching	8		
TR702, 704, 706, 708, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 918		2SA733-P1	Transistor, Driver	19		
DIODES						
D701, 702, 703, 704, 705, 706, 707, 708, 902, 903, 908		**SM112**	Diode, Rectifier & Relay Coil	11		
D709		MA1062A	Diode, 6.2V Zener	1		O
D710, 901, 904, 905, 906, 910, 911, 912, 913 914, 915, 916, 917, 949, 950		2-OA99	Diode, Switching	15		
D909		OA95	Diode, Switching	1		
D920~939		SVDGD4203SRD	Diode, Channel, Week, Preset Indicator	20		O
D940~955		OA90	Diode, Preset	16		

Ref. No.		Part No.	Part Name & Description	Per Set		Remarks
COMPONENT COMBINATIONS						
Z701, 702, 901		EXRFS203ZC	Component Combination, 0.01μF (X2)	3		
VARIABLE RESISTOR						
VR901		EVTS3AA00B24	OSC Adjustment, 20kΩ (B)	1		
RELAYS						
RLY901		SSY39-1	Relay, Output and Input Selector	1		
SWITCHES						
S1, 2, 3		SSH347	Switch, Start/week, Hold/hour & Reset/minute	1		
S4		SSR91	Switch, Time Mode	1		
S5		SBC195	Switch, Preset Button	16		O
S7		SSR93	Switch, Program Mode	1		O
S6		RSS3A	Switch, 50/60 Hz Selector	1		
DISPLAY TUBE						
		SAD5MT-01	Display Tube	1		O

• SH-3038P

Ref. No.		Part No.	Part Name & Description	Per Set		Remarks
DIODES						
D710 [XE] only		SVDGD4203SRD	Diode, Power Indicator	1		
D711 [XE] only		SVD10E1	Diode	1		
TRANSFORMER						
T701	S	SLT5L153	Power Transformer	1		O
RELAYS						
RLY701, 702 703, 704	S	SSY59	Relay, AC Outlet	4		O
SWITCHES						
S8 [XE] only	S	ESB70133	Switch, Power Source	1		
S9 [D]	S	ESE372	Switch, Voltage Adjustment	1		
S9 [XE] only	S	ESE376	Switch, Voltage Adjustment	1		
FUSE						
F1	S	XBA2C03TR0	Fuse, 3.15A (250V) Power Source	1		

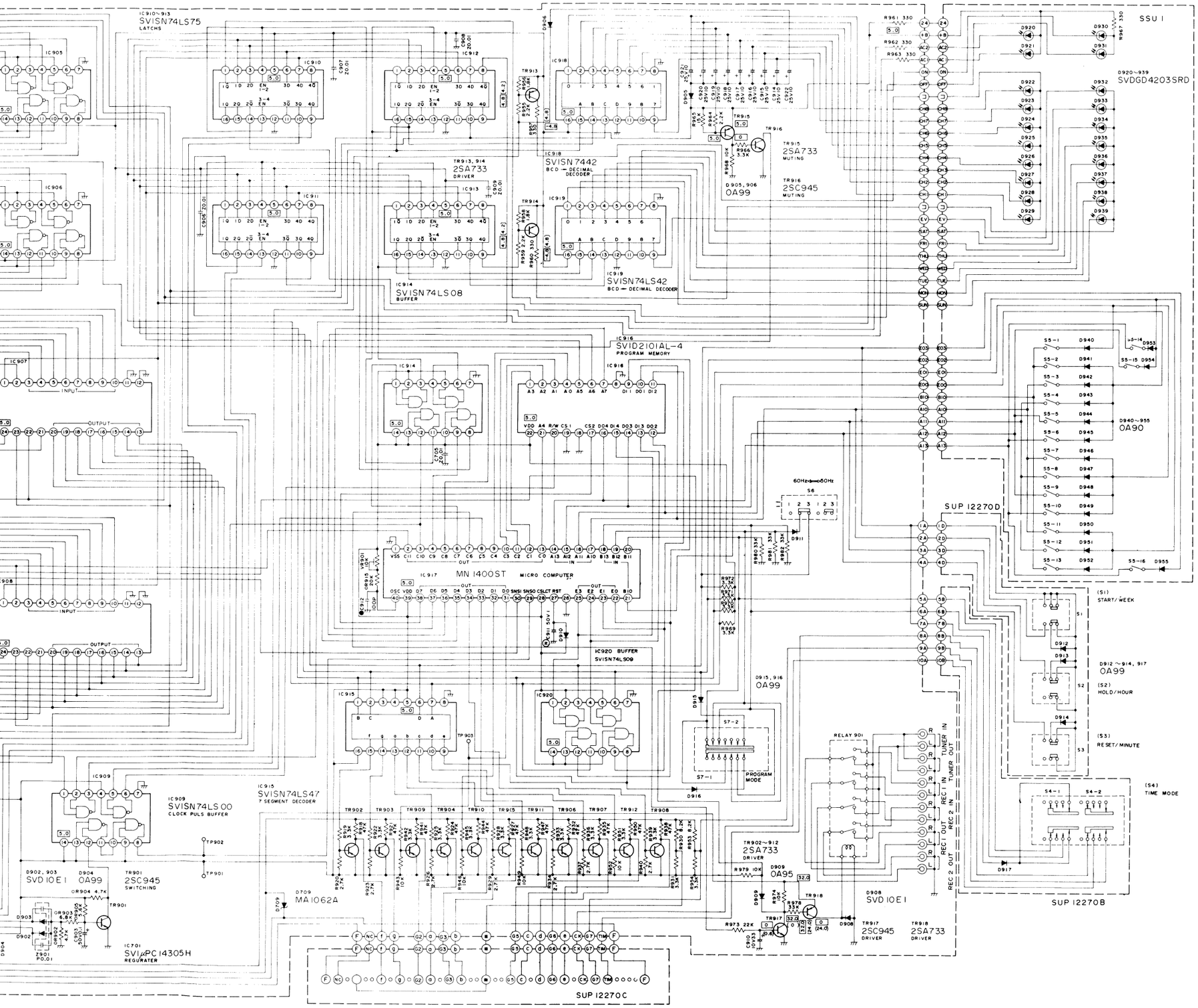
1 2 3 4 5 6 7 8 9 10 11

A B C D E F G

TR919 2SC945 BUSLINES SWITHER
D949,950 0A99
IC921 SVITC 4099P SINGLE 8-CHANNEL MVLTIPLEXER
IC922 SVITC 4051P 8BIT A.D.D.RESSABLA LATCH
IC910~913 SVISN74LS75 LATCHS
IC901, 902 SVISN74LS00
IC905, 906 SVISN74LS03 BUSLINES CONTROLER
IC907, 908 SVICD4036AD CHANNEL MEMORY
IC914 SVISN74LS08 BUFFER
TR913, 914 2SA733 DRIVER
IC918 SVISN7442 BCD — DECIMAL DECODER
IC919 SVISN74LS42 BCD — DECIMAL DECODER
TR915 2SA733 MUTING
TR916 2SC945 MUTING
D905, 906 0A99
IC916 SVID2101AL-4 PROGRAM MEMORY
SH-3038P (POWER UNIT)
SUP 14370 A
RELAY 701
RELAY 702
RELAY 703
RELAY 704
SUP 14370B
AC 240, 220, 120, 110V (AC 240, 220V XE)
TR701, 703, 705, 707 2SC945 DRIVER
TR702, 704, 706, 708 2SA733 DRIVER
D710 SVDG04203SRD
D701~708 SVD10E1
D710 0A99
D711 SVD10E1
IC909 SVISN74LS00 CLOCK PULS BUFFER
IC915 SVISN74LS47 7 SEGMENT DECODER
D902, 903 SVD10E1
D904 0A99
TR901 2SC945 SWITCHING
D709 MA1062A
IC701 μPC14305H REGURATER
IC917 MN1400ST MICRO COMPUTER
IC920 BUFFER SVISN74LS09
D915, 916 0A99
TR902~912 2SA733 DRIVER
D909 0A95
TR917 2SC945 DRIVER
TR918 2SA733 DRIVER
D908 SVD10E1
RELAY 901
TUNER IN
TUNER OUT
REC 1 IN
REC 1 OUT
REC 2 IN
REC 2 OUT
PROGRAM MODE
60Hz⇔50Hz
SUP 12270D
SUP 12270C

5 6

Schematic Diagram ..... Model SH-9038



Notes: 1. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
▭ Normal condition.
( ) Relay to ON condition.
[ ] Indicator (LED) to ON condition.

2. The terminal voltage of IC's that are not indicated should be measured by oscilloscope. The reliable level voltages are as follows:
Minimum level — Less than 0.4V
Maximum level — Between 2.4V and 5V

SH-9038

1. **S1:** Start/week switch in "**NO CONNECT**" position. (not-push condition)
2. **S2:** Hold/hour switch in "**NO CONNECT**" position. (not-push condition)
3. **S3:** Reset/minute switch in "**NO CONNECT**" position. (not-push condition)
4. **S4:** Time mode switch in "**Timer**" position.
① timer ↔ ② clock ↔ ③ time set
5. **S5-1~S5-16:** Preset push switch
S5-1: AC2 switch in "**NO CONNECT**" position.
S5-2: AC2 switch in "**NO CONNECT**" position.
S5-3: 9 switch in "**NO CONNECT**" position.
S5-4~S5-11: 8~1 or Sun~everyday switch in "**NO CONNECT**" position.
S5-12: 0 switch in "**NO CONNECT**" position.
S5-13: Cancel or reset switch in "**NO CONNECT**" position.
S5-14: Power off switch in "**NO CONNECT**" position.
S5-15: Power on switch in "**NO CONNECT**" position.
S5-16: Step switch in "**NO CONNECT**" position.
6. **S6:** Frequency selector switch in "**50 Hz**" position.
7. **S7-1, S7-2:** Program mode switch in "**FM memory**" position.
① FM memory ↔ ② manual ↔ ③ auto ↔ ④ read ↔ ⑤ write ↔ ⑥ reset

SH-3038P (POWER UNIT)

1. **S8** ([XE] only): Power switch in "**OFF**" position.
2. **S9:** Voltage adjustment switch in "**240V**" position.
240V ↔ 220V ↔ 110V ↔ 120V

■ REPLACEMENT PARTS LIST

NOTES:

1. Part numbers are indicated on most mechanical parts Please use this part number for parts orders.
2. **S** indicates that only parts specified by the manufacturer be used for safety.
3. Guide letters of Resistor and Capacitor indicate:

Resistors
ERD . . . Carbon

Capacitors
ECN . . . . . Paper
ECK . . . . . Ceramic
ECE . . . . . Electrolytic
ECE□N . . . . . Non-polar electrolytic
ECC . . . . . Ceramic

• SH-9038

Ref. No.	Part No.	
RESISTORS		
R713	ERD12FJ152	S
R714	**ERD14FJ472**	S
R715	ERD12FJ181	S
R902	**ERD25TJ472**	
R903	**ERD25TJ682**	
R904	**ERD25TJ472**	
R905	**ERD25TJ562**	
R915	**ERD25TJ103**	

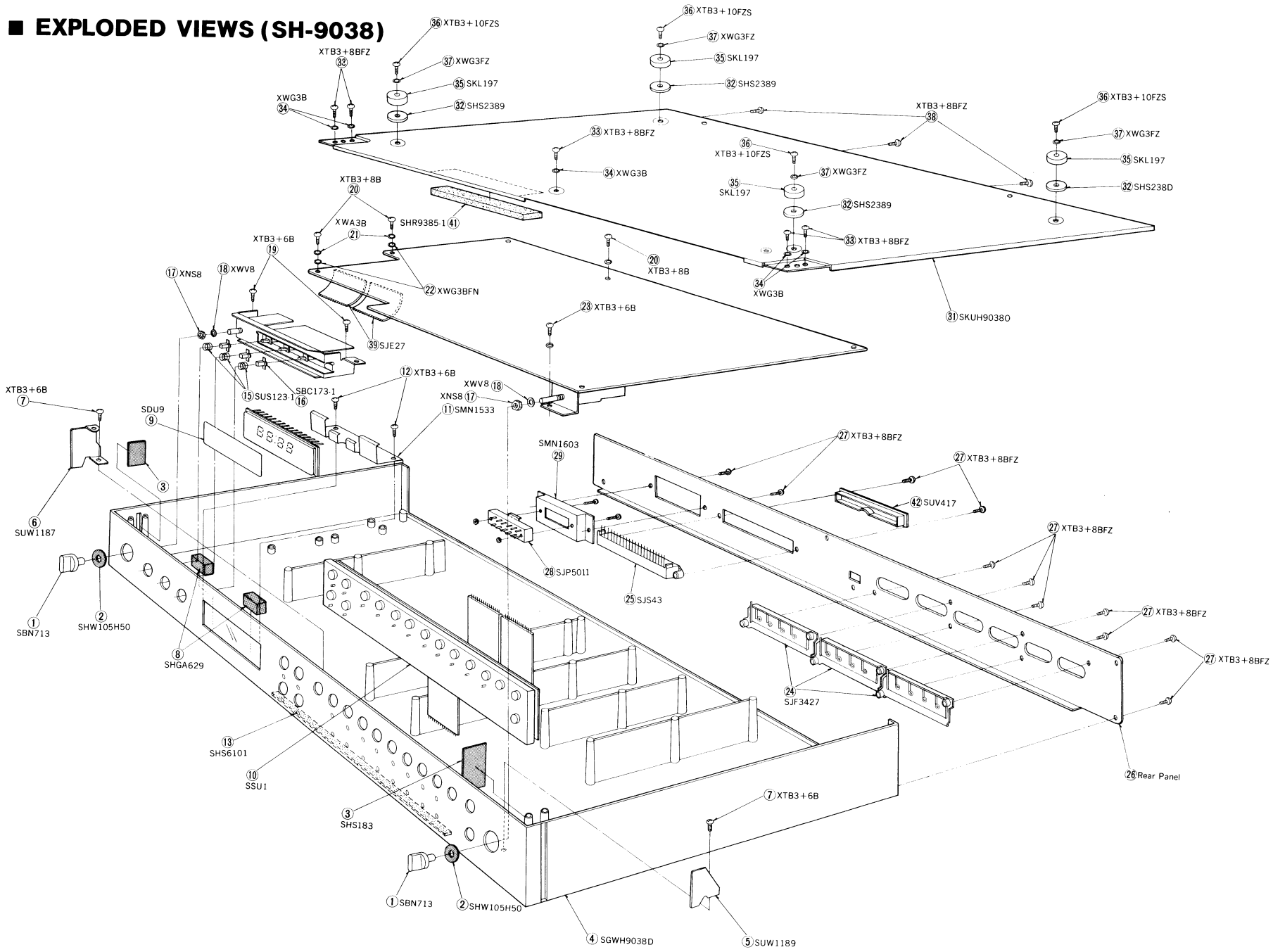
Ref. No.	Part No.	
CAPACITORS		
C705	ECKD1H103ZF	
C706	**ECEA16V1000V**	
C707	**ECEA10V100V**	
C710	**ECEA1JS471**	
C711	**ECEA50V220V**	
C712	**ECEA35V220V**	
C713, 714	**ECEA16V33**	
C715, 716	**ECEA16V33**	
C903	ECEA50MR1R	
C906, 907	ECKD1H103ZF	
C908, 909	ECKD1H103ZF	
C910	**ECEA16V33**	
C911	**ECEA50N1**	S
C912	ECCD1H101KU	
C914, 915	**ECEA35V10**	
C916, 917	**ECEA35V10**	
C918, 919	**ECEA35V10**	
C920, 921	**ECEA35V10**	
C922	**ECEA35V10**	

• SH-3038P

Ref. No.	Part No.	
RESISTORS		
R701, 702	ERD12FJ101	S
R703	ERD12FJ101	S
R720, 721	ERD12FJ101	S
R722 [XE] only	**ERD25TJ471**	

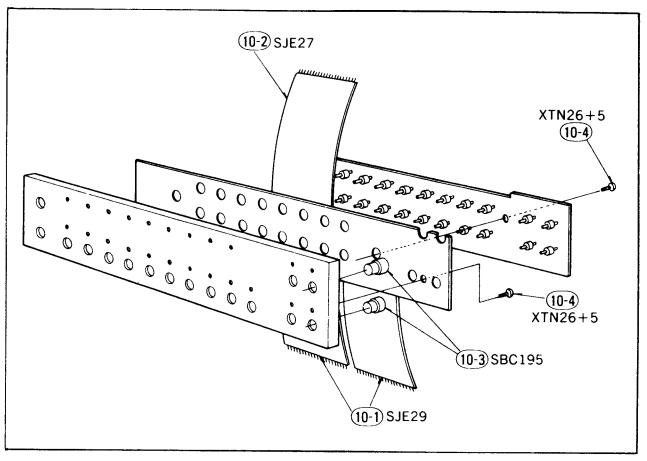
Ref. No.	Part No.	
CAPACITORS		
C701, 702	ECNC4A103M	S
C703, 704	ECNC4A103M	S
C709	ECNC4A103M	S

■ EXPLODED VIEWS (SH-9038)



Ref. No.		Part No.	Part Name & Description	Per Set		Remarks
			CABINET and CHASSIS PARTS			
1		SBN713	Knob, Time Mode & Program Mode	2		
2		SHW105H50	Shading Close	2		
3		SHS183	Shading Close	2		
4		SGWH9088D	Cabinet Ass'y	1		○
5		SUW1189	Bracket, Key Board	1		*○
6		SUW1187	Bracket, Key Board	1		*○
7		XTB3+6B	Screw, Key Board Bracket M'tg	2		
8		SHGA629	Rubber Cushion	2		
9		SDU9	Filter, Display Tube	1		
10		SSU1	Key Board Ass'y	1		○
10-1		SJE29	Flat Cable	2		○
10-2		SJE27	Flat Cable	1		○
10-3		SBC195	Button, Key Board Switch	16		○
10-4		XTN26+5	Screw, Printed Circuit Board M'tg	8		
11		SMN1533	Bracket, Display Tube	1		*○
12		XTB3+6B	Screw, Display Tube Bracket & AC Cord Blacket M'tg	2		
13		SHS6101	Rubber Cushion, Key Board	1		
15		SUS123-1	Spring, Push Switches	3		
16		SBC173-1	Button, Push Switches	3		
17		XNS8	Nut, Selector Switch M'tg	2		
18		XWV8	Washer, Selector Switch	2		
19		XTB3+6B	Screw, Push Switch Ass'y M'tg	2		
20		XTB3+8B	Screw, Printed Circuit Board M'tg	3		
21		XWA3B	Washer, Printed Circuit Board Screw	4		
22		XWG3BFN	Washer, Printed Circuit Board Screw	2		
23		XTB3+6B	Screw, Printed Circuit Board Screw	1		
24		SJF3427	Terminal, Tuner In, Tuner Out, Rec In & Rec Out	3		
25		SJS43	Terminal, Control Signal Line	1		
26 [D] only		SGP992A	Rear Panel	1		○
26		SGPH9038D	Rear Panel, SGP992A with Name Plate (SGT16750)	1		○
27		XTB3+8BFZ	Screw, Rear Panel M'tg	12		
28		SJP5011	Socket, 12p Power Unit	1		○
29		SMN1603	Bracket, 12p Power Unit Socket	1		○
31		SKUH9038D	Bottom Board	1		*○
32		SHS2389	Rubber Cushion, Foot	4		
33		XTB3+8BFZ	Screw, Bottom Board M'tg	5		
34		XWG3B	Washer, Bottom Board Screw	5		
35		SKL197	Foot, Set	4		
36		XTB3+10FZS	Screw, Foot M'tg	4		
37		XWG3FZ	Washer, Foot Screw	4		
38		XTB3+8BFZ	Screw, Bottom Board M'tg	3		
39		SJE27	Flat Cable	2		
41		SHR9385-1	Rubber Cushion, Display Tube	1		
42		SUV417	Rubber Cap, Control Signal Line	1		

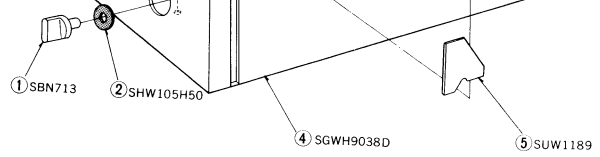
• Key Board



- 10-3 SBC195 stands for conductive rubber switches with knobs attached.
- When disassembling the key board, do not touch the foiled surface of the printed board. When assembling, make sure that the foiled surface is free of dust.

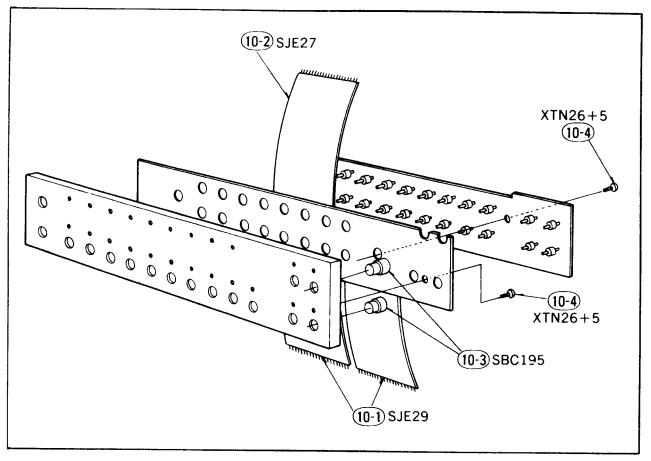
■ EXPLODED VIEWS (SH-3038P)

SH-9038
SH-9038



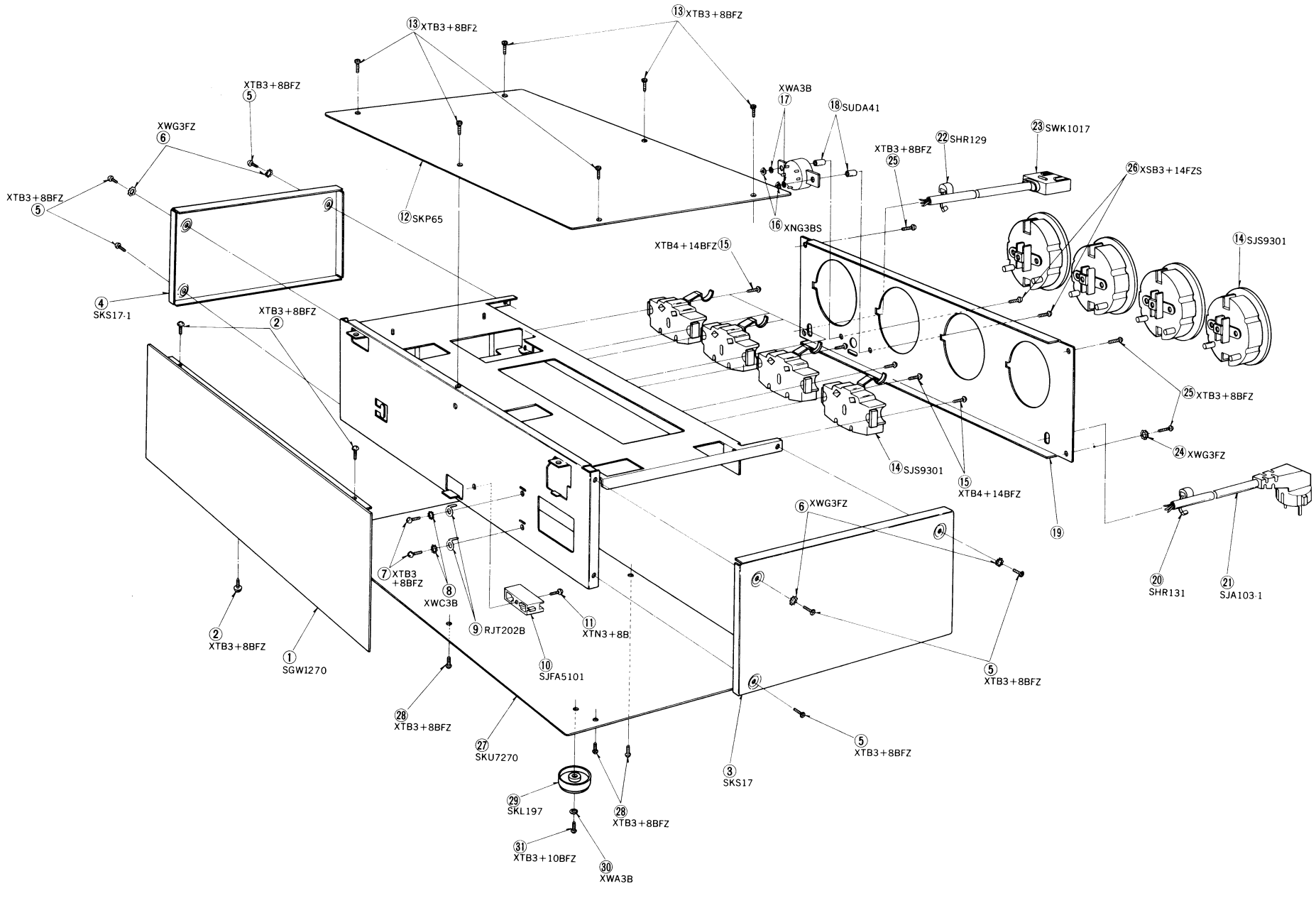
Ref. No.		Part No.	Part Name & Description	Per Set		Remarks
			CABINET and CHASSIS PARTS			
1		SBN713	Knob, Time Mode & Program Mode	2		
2		SHW105H50	Shading Close	2		
3		SHS183	Shading Close	2		
4		SGWH9038D	Cabinet Ass'y	1		○
5		SUW1189	Bracket, Key Board	1	*	○
6		SUW1187	Bracket, Key Board	1	*	○
7		XTB3+6B	Screw, Key Board Bracket M'tg	2		
8		SHGA629	Rubber Cushion	2		
9		SDU9	Filter, Display Tube	1		
10		SSU1	Key Board Ass'y	1		○
10-1		SJE29	Flat Cable	2		○
10-2		SJE27	Flat Cable	1		○
10-3		SBC195	Button, Key Board Switch	16		○
10-4		XTN26+5	Screw, Printed Circuit Board M'tg	8		
11		SMN1533	Bracket, Display Tube	1	*	○
12		XTB3+6B	Screw, Display Tube Bracket & AC Cord Blacket M'tg	2		
13		SHS6101	Rubber Cushion, Key Board	1		
15		SUS123-1	Spring, Push Switches	3		
16		SBC173-1	Button, Push Switches	3		
17		XNS8	Nut, Selector Switch M'tg	2		
18		XWV8	Washer, Selector Switch	2		
19		XTB3+6B	Screw, Push Switch Ass'y M'tg	2		
20		XTB3+8B	Screw, Printed Circuit Board M'tg	3		
21		XWA3B	Washer, Printed Circuit Board Screw	4		
22		XWG3BFN	Washer, Printed Circuit Board Screw	2		
23		XTB3+6B	Screw, Printed Circuit Board Screw	1		
24		SJF3427	Terminal, Tuner In, Tuner Out, Rec In & Rec Out	3		
25		SJS43	Terminal, Control Signal Line	1		
26 [D] only		SGP992A	Rear Panel	1		○
26		SGPH9038D	Rear Panel, SGP992A with Name Plate (SGT16750)	1		○
27		XTB3+8BFZ	Screw, Rear Panel M'tg	12		
28		SJP5011	Socket, 12p Power Unit	1		○
29		SMN1603	Bracket, 12p Power Unit Socket	1		○
31		SKUH9038D	Bottom Board	1	*	○
32		SHS2389	Rubber Cushion, Foot	4		
33		XTB3+8BFZ	Screw, Bottom Board M'tg	5		
34		XWG3B	Washer, Bottom Board Screw	5		
35		SKL197	Foot, Set	4		
36		XTB3+10FZS	Screw, Foot M'tg	4		
37		XWG3FZ	Washer, Foot Screw	4		
38		XTB3+8BFZ	Screw, Bottom Board M'tg	3		
39		SJE27	Flat Cable	2		
41		SHR9385-1	Rubber Cushion, Display Tube	1		
42		SUV417	Rubber Cap, Control Signal Line	1		

- **Key Board**



- 10-3 SBC195 stands for conductive rubber switches with knobs attached.
- When disassembling the key board, do not touch the foiled surface of the printed board. When assembling, make sure that the foiled surface is free of dust.

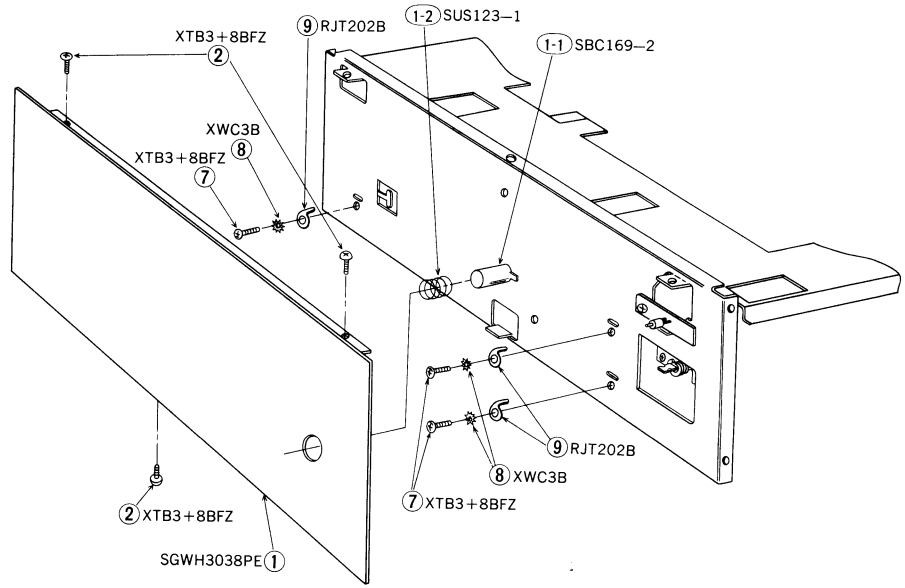
■ EXPLODED VIEWS (SH-3038P)



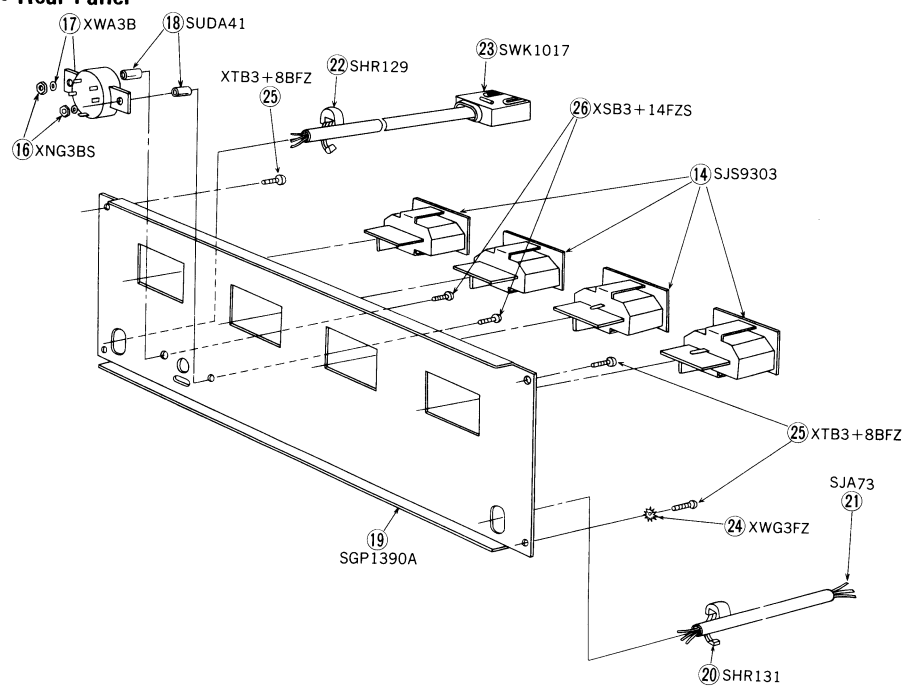
Ref. No.		Part No.	Part Name & Description	Per Set	Remarks
CABINET and CHASSIS PARTS					
1		SGW1270A	Panel, Front	1	○
1 [XE] only		SGWH3038PE	Panel, Front	1	○
1-1 [XE] only		SBC169-2	Button, Power Source Switch	1	
1-2 [XE] only		SUS123-1	Spring, Power Source Switch	1	
2		XTB3+8BFZ	Screw, Front Panel M'tg	3	
3		SKS17	Cabinet, Right Side	1	* ○
4		SKS17-1	Cabinet, Left Side	1	* ○
5		XTB3+8BFZ	Screw, Side Cabinets M'tg	6	
6		XWG3FZ	Washer, Side Cabinets Screw M'tg	4	
7		XTB3+8BFZ	Screw, Ground Lug M'tg	2	
8		XWC3B	Washer, Ground Lug Screw	2	
9		RJT202B	Lug, Ground	2	
10		SJFA5101	Holder, Fuse	1	
11		XTN3+8B	Screw, Fuse Holder M'tg	1	
12		SKP65	Top Board	1	○
13		XTB3+8BFZ	Screw, Top Board M'tg	6	
14	S	SJS9301	Socket, AC Outlet	4	○
14 [XE] only	S	SJS9303	Socket, AC Outlet	4	○
15		XTB4+14BFZ	Screw, AC Outlet M'tg (Except Set for [XE]	8	
16		XNG3BS	Nut, Voltage Selector Switch M'tg	2	
17		XWA3B	Washer, Voltage Selector Switch	2	
18		SUDA41	Spacer, Voltage Selector Switch	2	*
19 [D]		SGP1390-1A	Rear Panel	1	
19 [XE]		SGP1390A	Rear Panel	1	○
19 [DG, XGH, X XGF, XA]		SGPH3038PD	Rear Panel, SGP1390-1A with Name Plate (SGT16790)	1	
20		SHR131	Bushing AC Cord	1	
21	S	SJA103-1	AC Cord	1	
21 [XE] only	S	SJA73	AC Cord	1	
22		SHR129	Bushing, 12P Connector Cord	1	
23		SWK1017	Connector, 12 pin Ass'y	1	○
24		XWG3FZ	Washer, Rear Panel Screw	2	
25		XTB3+8BFZ	Screw, Rear Panel M'tg	4	
26		XSB3+14FZS	Screw, Voltage Selector Switch M'tg	2	
27		SKU7270	Bottom Board	1	* ○
28		XTB3+8BFZ	Screw, Bottom Board M'tg	6	
29		SKL197	Foot, Set	4	
30		XWA3B	Washer, Set Bottom Foot M'tg	4	
31		XTB3+10BFZ	Screw, Set Bottom Foot M'tg	4	

■ EXPLODED VIEWS OF PRODUCT FOR SH-3038P (XE) ONLY

• Front Panel



• Rear Panel



■ REPLACEMENT PARTS LIST (ACCESSORIES AND PACKING PARTS

Ref. No.		Part No.	Part Name & Description	Per Set		Remarks
ACCESSORIES						
A1		SJP2129-5	Cord, Connection Shield	2		
A2		SJS5009	Cord, Connection Cable with 16-Pin Connectors	1		○
A3		SYE527	Mounting Adapter, Rack	1		
A4		XXE4D5FZS	Screw, 4mm Hexagonal Recessed Head	2		
A5		XVE5B10FZS	Bolt, 5mm Hexagonal Recessed Head	4		
A6		XWG5FZ	Washer, Metal	4		
A7		SHW49F100	Washer, Fiber	4		
A8		SHEA5	Screw Driver, 2mm Hexagonal Wrench	1		
A9		SPB4013	Screw Driver, 4mm Hexagonal Wrench	1		
A10 [XA] only		SJP5213-1	AC Plug	1		
A11 [XA] only		SJP5215	AC Plug	1		
PACKING PARTS						
P1		SPP501	Polyethylene Bag	1		
P2		SPH6225	Soft Cover	1		○
P3		SPS1673	Pad, Top Side	1		○
P4		SPS1671	Pad, Bottom Side (B)	1		○
P5		SPS1635	Pad, Left and Right Side	2		○
P6		SPS1751	Pad, Bottom Side	1		○
P7		SPG1575	Carton Box	1		○
P7 [XGF] only		SPG1577	Carton Box	1		○
P8		SQF1919	Instructions Book, Printed Matter	1		○
P8 [XE] only		SQF1921	Instructions Book, Printed Matter	1		○

* (D) and (DG) are available in Scandinavia and European only.
* (XGH) is available in Holland only.
* (XGF) is available in France only.
* (XE) is available in United Kingdom only.
* (XA) and (X) are available in Asia, Latin America, Middle East and Africa only.

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